Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

Regulated Component	Pollutant	Rule/Measure/Date									
		BAAQMD Reg. 8 Rule 29 Aerospace Vehicle Parts & Products Coating Operations 12/29/95		SCAQMD Rule 1124 Aerospace Assembly and Component Manufacturing Operations 12/13/96		SDCAPCD Rule 67.9 Aerospace Coating Operations 4/30/97		VCAPCD Rule 74.13 Aerospace Assembly and Component Mfg. Operations 9/10/96		U.S. EPA Aerospace Manufacturing and Rework Operations [b] CTG draft 10/96 *NESHAP limits in italics 9/15/95*	
		Performance Standard									
VOC	VOC ROC	X	Reg 1 does not exempt PCE		Rule 102 exempts PCE		Rule 2 exempts PCE	X	Rule 2 ROC does not exempt PCE	X	CTG exempts PCE *NESHAP does not exempt PCE, TCA, MeCl*
adhesives and coating application, general solvent limit	VOC			X	reduce organic material emissions from organic solvent or materials containing organic solvent by 85% Rule 442						
spray coating equipment, general	paint or coating			X	must be operated in a controlled enclosure except: spraying catalyzed epoxy or polyurethane primers or coating that can not fit in an enclosure or completed vehicles Rule 481						
ablative coating	VOC				650 fire resistant, civilian					X	600 (9-1-98)
ablative coating military	VOC			X	970 fire-resistant, military						
adhesive, commercial interior	VOC				805 1/1/98 250 (1/1/02) adhesive bonding primer					X	760

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
adhesive, cyanoacrylate	VOC			X	805 1/1/98 250 (1/1/02) adhesive bonding primer						1020
adhesive, elastomeric	VOC			X	805 1/1/98 250 (1/1/02) adhesive bonding primer		850				
adhesive, fuel tank	VOC			X	620	X	620			X	620
adhesive, promotor	VOC ROC			X	805 1/1/98 250 (1/1/02) adhesive bonding primer				850		
adhesive, rocket motor bonding	VOC										890
adhesive, rubber-based	VOC			X	805 1/1/98 250 (1/1/02) adhesive bonding primer						850
adhesive, non-structural	VOC ROC			X	250			X	250		360
adhesive, structural epoxy	VOC					X	50 5/21/91 epoxy				

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		Performance Standard									
adhesive, structural autoclavable	VOC ROC	exempt Reg. 8 Rule 4 see adhesive bonding primer	X	50	X	50 5/21/91	X	50		60	
adhesive, structural non-autoclavable	VOC ROC			850	X	250		850 NO SOURCES 12/97		850 cure <250°F	
adhesive, all other	VOC			See adhesives and coating application, general solvent limit	X	250 7/1/92 all other					
adhesive bonding primer	VOC ROC	850 exempt high-temp-cure >325°F see Reg 8 Rule 4, section 8-4-301 exempts operations using heat if <2.5 tpy VOC	X	805 250 (1/1/02) <350°F		850 5/21/91	X	780 NO SOURCES 12/97		850 <250°F 1030 >250°F	
adhesive bonding primer, elastomeric	VOC		X	805 1/1/98 250 (1/1/02) adhesive bonding primer		850 5/21/91					
adhesive bonding primer, long term metal to structural core bonding	VOC		X	800 250 (1/1/00) >350°F		850 5/21/91 structural				1030	
adhesive bonding primer, short term metal to structural core bonding	VOC		X	250 >350°F		850 5/21/91 all other				1030	

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
adhesive bonding primer, decorative laminating	VOC										
adhesive bonding primer, military	VOC										
adhesive bonding primer, nitrile phenolic (metal to metal)	VOC										
adhesive bonding primer, all other											
antichafe	VOC			X	600	X	600 5/21/91	X	600		660
barrier a.k.a. fastener lubricative, barrier coating	VOC ROC							X	420		
bearing	VOC			X	420 fastener, lubricative, barrier coating		620 5/21/91				
caulking and smoothing compounds	VOC					X	850 5/21/91				
chemical agent-resistant (CARC)	VOC			X	420 topcoat						550

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
commercial exterior aerodynamic structural primer	VOC			X	650 low solids corrosion resistant primer					X	650
conformal	VOC ROC				750		750 5/21/91		750		
corrosion prevention compound	VOC			X	780 pretreatment coating					X	780
cryogenic flexible primer	VOC			X	350 general primer						645
cryoprotective coating	VOC			X	420 topcoat						600
electric or radiation effect coating	VOC ROC		800		800		800 5/21/91		675 NO SOURCES 12/97		800
elevated temperature skydrol resistant commercial primer	VOC			X	805 1/1/98 250 (1/1/02) adhesive bonding primer					X	740
extreme performance interior coating, barrier	VOC	X	420	X	420 topcoat						
fastener, installation, solid-film lubricant	VOC			X	880			X	880		
fastener, installation, dry lubricative material	VOC			X	675 1/13/95						

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

Regulated Component	Pollutant	Rule/Measure/Date											
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		Performance Standard									
fastener, lubricative, solid-film lubricant	VOC ROC			X	250 1/1/98 DON'T KNOW IF AVAILABLE & DON'T KNOW IF SOURCES USING 1/15/98			X	250 mfg 1 SOURCE USING AFTERBURNER 12/97		
fastener, lubricative, dry lubricative material	VOC ROC			X	120		250 9/1/92		250 mfg		
fastener, lubricative, barrier coating	VOC			X	420			X	420 barrier		
non-fastener lubricative, solid film lubricant	VOC ROC			X	880 1/13/95			X	880		
non-fastener lubricative, dry lubricative material	VOC ROC			X	675 1/13/95		880 5/21/91		880		
fastener, wet installation coating	VOC			X	250 1/1/98 fastener, lubricative, solid-film lubricant						850
fire insulation coating, interior fire-resistant, civilian	VOC ROC	X	600		650				650		800
fire-resistant, military	VOC			X	970						
flight-test coating, missiles or single use target	VOC ROC			X	420			X	420	X	420

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		Performance Standard									
flight-test coating, all other	VOC ROC				840			X	600 NO SOURCES 12/97		840
fuel tank coating	VOC ROC		720	X	420		720	X	420		720
fuel tank coating, epoxy	VOC			X	680 420 (1/1/99)			X	620 NO SOURCES 12/97		780 compatible substrate, epoxy or adhesive primer surfaces that contain fuel (not fuel tank coating)
fuel tank coating, rubber	VOC			X	680 420 (1/1/02)						
high-temperature coating, >350ºF	VOC ROC		720		850		850 5/21/91		850 NO SOURCES 12/97		850
impact resistant	VOC			X	420			X	420		780 compatible substrate, epoxy
insulation covering, applied to foam insulation	VOC			X	420 topcoat 12/96						740
lacquer	VOC			X	420 topcoat 12/96						830
metallized epoxy coating	VOC			X	700						740
mold release	VOC									X	780

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Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
optical anti-reflective	VOC ROC			X	700			X	700		750
part marking	VOC									X	850
pretreatment wash primer, 0.5% acid	VOC ROC	X	420		780 pretreatment coating		780 5/21/91		780		780
primer, general	VOC ROC HAP	X	350	X	350	X	350 5/21/91	X	350 phosphate	X	*350 (2.9 lb/gal)*
primer, flexible	VOC			X	350 primer general						640
primer, low solids corrosion resistant	VOC			X	650 see commercial exterior aerodynamic structural primer					X	650
primer, not resistant to phosphate esters	VOC ROC			X	350 primer general			X	350		
primer, resistant to phosphate esters	VOC ROC			X	350 primer general			X	350		
primer, compatible w/ rain resistant coating	VOC			X	850						
rain erosion-resistant	VOC ROC				800			X	420 NO SOURCES 12/97		850
rain erosion resistant, fluoroelastomer	VOC										

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
rocket motor nozzle	VOC									X	660
sealant	VOC ROC	X	600	X	600	X	600 7/1/92	X	600	X	600 sealant, spray
sealant, extrudable/rollable/brushable	VOC				600 sealant					X	240
self-priming topcoat, unicoat	VOC RO C	X	420	X	420	X	420 7/1/92	X	420	X	*420 (3.5 lb/gal)*
sealant bonding primer, used before silicone sealant	VOC		720	X	350 primer general						
silicone insulation material	VOC			X	420 topcoat						850
scale inhibitor	VOC ROC			X	880			X	880	X	880
screen print ink	VOC									X	840
space-vehicle, adhesive	VOC ROC			X	800	X	800 5/21/91	X	800		
space-vehicle coating, electrostatic discharge protective coating	VOC ROC			X	800	X	800 5/21/91	X	800	X	800
space-vehicle coating, thermocontrol	VOC ROC										

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Source Category: Aerospace Assembly and Component Coating Operations [a]

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		Performance Standard									
space-vehicle coating, other	VOC ROC			X	1000	X	1000 5/21/91	X	1000		
temporary protective coating	VOC ROC	X	250 2/3/93			X	250 5/21/91	X	250		320
thermal control	VOC					X	600 5/21/91				800
thermal expansion release	VOC										
topcoat, general	VOC HAP	X	320		420		420 7/1/92		420		*420 (3.5 lb/gal)*
topcoat, clear	VOC			X	520			X	520		720 clear coating
topcoat, epoxy polyamide	VOC			X	420 topcoat, general						660
topcoat, interior	VOC ROC	X	340		420 topcoat, general		420 7/1/92 topcoat, general		420 topcoat, general		
topcoat, acrylic lacquer for F-111	VOC										
wing	VOC ROC			X	750			X	420 NO SOURCES 12/97		850
wire, electronic	VOC ROC			X	420			X	420		
wire, anti-wicking	VOC ROC			X	420			X	420		
wire, pre-bonding etchant	VOC ROC			X	420			X	420		

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		Performance Standard									
phosphate ester resistant ink	VOC ROC			X	925			X	925		
all other or general	VOC			X	350		420 5/21/91				
maskant, chemical processing	VOC	X	600 does not exempt PCE	X	250 exempts PCE	X	250 exempts PCE <u>or</u> dip tank controls				
maskant, chemical milling	VOC ROC HAP	X	600 does not exempt PCE (included above in chemical processing)		250 exempts PCE	X	160 type II others 250 <u>or</u> type I dip tank controls exempts PCE	X	250 does not exempt PCE	X	*622 type I (9-1-98) 160 type II (9-1-98)*
maskant, photolithographic	VOC			X	850						
maskant, touch-up, liner-sealer	VOC			X	750						
maskant, bonding	VOC			X	250 maskant processing exempts PCE						1230
maskant, critical use an line sealer	VOC			X	250 maskant processing exempts PCE						1020

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		Performance Standard									
maskant, seal coat	VOC			X	250 maskant processing exempts PCE						1230
solvent use, surface preparation, clean up or mixing	VOC ROC HAP				- <= 200 g/l <u>or</u> - composite partial pressure <= 45 mm Hg or less at 20°C 1/13/95	X	- <= 200 g/l <u>or</u> - <= 45 mm Hg or less at 20°C 5/21/91<u>or</u> - initial boiling point <= 190°C <u>or</u> greater at 760 mm Hg total pressure - enclosed cleaning material which is opened only when accessing part or adding surface cleaning material	X	- <= 200 g/l <u>or</u> - ROC <= 25 mm Hg at 20°C	X	- aqueous cleaning solvent with >= 80 % water, a flashpoint > 93°C (200°F), and miscible with water, <u>or</u> - hydrocarbon cleaner with a max. VP <= 7 mm Hg at 20°C (3.75 in H_2O at 68°F) and contain no HAP or ozone depleting compounds, <u>or</u> - composite partial pressure <= 45 mm Hg or less at 20°C
solvent use, storage or disposal of coating or stripper containing organic solvent	VOC ROC HAP	X	minimize solvent evaporative loss: - closed containers for storage or disposal of cloth or paper - closed container when not in use 8/4/82		- solvent non-adsorbent, no-leaking container kept closed - recommended cloth and paper be stored the same Rule 1171		- can't use coating equipment to dispose of . . . into the air		- closed containers	X	- place solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers designed as to contain vapors upon completing their use. - keep closed when not in use

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		Performance Standard									
solvent use, cleaning equipment	VOC ROC HAP	X	shall not use organic compounds for the cleanup of spray equipment including paint lines unless equipment for collecting the cleaning compounds and minimizing their evaporation to the atm is used. 2/3/93		- closed during cleaning operations; - remote reservoir; - non-atomized solvent flow w/ collection system closed; - flushing into closed container Rule 1171	X	- <= 200 g/l or - <= 20 mm Hg or less at 20°C or - initial boiling point <= 190°C or greater at 760 mm Hg total pressure - closed during cleaning - cleaned equipment or part is drained until dripping ceases - totally encloses component part during washing, rinsing and draining		-enclosed gun washer or low emission spray gun cleaner approved by APCO and -ROC composite partial pressure of organic solvent used is less than 45 mm Hg at 20°C		- enclosed system; - non-atomized cleaning; - disassemble and clean in a vat; - atomized into a container designed to capture emissions
stripper, organic	VOC ROC HAP	X	- <= 400 g/l or - <= 10 mm Hg (0.19 psia) true VP at actual usage temperature		- <= 300 g/l or - <= 9.5 mm Hg (0.18 psia) composite partial pressure at 20°C		- <= 400 g/l or - <= 9.5 mm Hg (0.18 psia) composite partial pressure less at 20°C 5/21/91		- <= 300 g/l ROC or - ROC composite partial pressure <= 9.5 mm Hg or less at 20°C	X	existing sources: - non-HAP chemical strippers or - reduce the organic HAP emissions >= 81% (carbon adsorber)

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		Performance Standard									
stripper, inorganic	HAP									X	*existing sources 9/1/98:* *-control, 2 stage filter or* *-waterwash system* *new source between 6/6/94 and 10/29/96:* *-control, 2 stage filter or* *-waterwash* *new source between 6/6/94 and 10/29/96 with chromium or cadmium:* *-control , 3 stage filter or* *-new soource:* *-HEPA filter* *new source 10/29/96:* *-control, 3 stage filter*

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		Performance Standard									
spray application equipment transfer equipment	VOC ROC HAP	X	- HVLP electrostatic spray, or detailing gun - alternative = see exemptions	X	- electrostatic, flow, roll, dip, HVLP, hand - alternative = 1/1/92		- electrostatic, flow, dip, hand, HVLP or equivalent - airless for maskants and temporary protective coating, 5/21/91	X	- electrostatic at min 60 kV, flow coat, dip coat, hand application methods, HVLP, or - alternative 65 %	X	- flow, dip, roll, brush, cotton-tipped swab, electrodeposition dip, HVLP, electrostatic spray - alternative = electrostatic or HVLP 30 day demonstration
control equipment, capture efficiency	VOC ROC HAP		control to an equivalent level by air pollution abatement device of at least 85 %	X	collection and control >= 90 %, by weight or output of the air pollution control device is < 50 PPM calculated as carbon with no dilution		combined capture and control 85 % by weight and approval by APCO		combined capture and control 85 % by weight and approval by APCO		overall capture and control per procedure CFR63.750(g);
control equipment, control efficiency	VOC ROC HAP		control to an equivalent level by air pollution abatement device of at least 85 %	X	control device efficiency at least 95 % by weight (combined 85.5 %)		combined capture and control 85 % by weight and approval by APCO 5/21/91				carbon adsorption unit 81%
averaging or an alternative emission control plan (AECP)	VOC ROC HAP		Rule 100 AECP	X	Rule 108 AECP - daily RK - 24-hour average - 20 % reduction from baseline NO SOURCES	X	Rule 67.1 AECP - daily RK - daily compliance - 20 % reduction form baseline		no	X	- daily RK w/ monthly volume- weighted average of HAP and VOC - uncontrolled primer - uncontrolled topcoat - uncontrolled maskant

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		Performance Standard				
labeling	VOC ROC	label or data sheet			label or data sheet	
recordkeeping, data	VOC ROC HAP	mfg. compliance statement via container or data sheet: - VOC g/L or #/gal - max. thinning ratio to maintain compliance w/ VOC limit - coating stripper, catalyst & reducer used - VOC content of coating & stripper	MSDS, mfg. data sheet, calculate, or test to determine VOC composition Exempts: solvent with water content 98% by weight or VOC composite pressure <= 0.1 mm Hg at 20° C or VOC with > 12 carbon atoms Rule 109	see below	label or data sheet ROC - content - ROC composite partial pressure of cleaning material - recommendated mixing with other ROC - ROC cleaning material ROC content	manufacturer data or test to determine HAP and VOC content

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		Performance Standard				
recordkeeping, usage coating	VOC ROC HAP	weekly: - coating & mix ratio as applied - quantity of each coating applied	daily records: - applicable district rule (109) - list of permit units involved using adhesives, coatings, solvents - method of application & substrate type - amount & type in each permit unit or dispensing station - VOC content - amount (including exempt compounds) used and VOC content of each -oven temperature	coating list: - uses - allowable VOC content - type and/or category - mfg. ID - mix ratio - VOC content per volume - multi-stage maskants mfg. ID of the component monthly: - materials not applied by dip coating, amount of each coating, stripper, & thinner used - material added to coating dip tanks	mfg. specification sheet such as MSDS - type - ROC g/L - mix ratio - daily volume - method of application	- name & content mass or organic HAP or VOC per volume - data, calculation, test results monthly: - volume (gal) of each coating formulation

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		BAAQMD Reg. 8 Rule 29 Aerospace Vehicle Parts & Products Coating Operations 12/29/95	SCAQMD Rule 1124 Aerospace Assembly and Component Manufacturing Operations 12/13/96	SDCAPCD Rule 67.9 Aerospace Coating Operations 4/30/97	VCAPCD Rule 74.13 Aerospace Assembly and Component Mfg. Operations 9/10/96	U.S. EPA Aerospace Manufacturing and Rework Operations [b] CTG draft 10/96 *NESHAP limits in italics 9/15/95*
		Performance Standard				
recordkeeping, usage solvent	VOC ROC HAP	monthly: - type - amount	daily records: - applicable district rule (109) - list of permit units involved using adhesives, coatings, solvents - method of application & substrate type - amount & type in each permit unit or dispensing station - VOC content - amount (including exempt compounds) used and VOC content of each - vapor pressure of solvents used as surface cleaners	coating list: - uses - allowable VOC content - type and/or category - mfg. ID - mix ratio - VOC content per volume of material, vapor pressure, or initial boiling point monthly: - inventory of solvents used for equipment cleaning and surface cleaning	mfg. specifications sheet - type - ROC g/L - daily volume of solvent & stripper - ROC composite partial pressure	- name of solvent - composition, data & calculation - annual volume based upon purchase records - composite vapor pressure

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

Regulated Component	Pollutant	Rule/Measure/Date				
		BAAQMD Reg. 8 Rule 29 Aerospace Vehicle Parts & Products Coating Operations 12/29/95	SCAQMD Rule 1124 Aerospace Assembly and Component Manufacturing Operations 12/13/96	SDCAPCD Rule 67.9 Aerospace Coating Operations 4/30/97	VCAPCD Rule 74.13 Aerospace Assembly and Component Mfg. Operations 9/10/96	U.S. EPA Aerospace Manufacturing and Rework Operations [b] CTG draft 10/96 *NESHAP limits in italics 9/15/95*
		Performance Standard				
recordkeeping, usage stripper	VOC ROC HAP	monthly: - amount - amount added to tank-type stripper	same as solvent above	same as solvent above	same as solvent above	chemical: - name - monthly volume of each organic HAP stripper nonchemical: - name - type of nonchemical based equipment
recordkeeping, alternative allowed	VOC ROC HAP	yes	yes Rule 108 AECP	yes Rule 67.1 AECP	no	yes, only uncontrolled primer or topcoats or maskants
recordkeeping, control equipment	VOC ROC HAP	daily: - coating usage - key system operating parameters	permit conditions	- same as coating, solvent & strippers above and O & M plan: - ID all key system operating parameters e.g., temperature, pressure, flow rate. - inspection schedules, anticipated ongoing maintenance, & proposed RK	daily records - key system operating and maintenance procedures which will demonstrate continuous operation & compliance - key system operating parameters	RK for carbon adsorber or other control

Identification of Achievable Performance Standards
Source Category: Aerospace Assembly and Component Coating Operations [a]

Regulated Component	Pollutant	Rule/Measure/Date									
		BAAQMD Reg. 8 Rule 29 Aerospace Vehicle Parts & Products Coating Operations 12/29/95		SCAQMD Rule 1124 Aerospace Assembly and Component Manufacturing Operations 12/13/96		SDCAPCD Rule 67.9 Aerospace Coating Operations 4/30/97		VCAPCD Rule 74.13 Aerospace Assembly and Component Mfg. Operations 9/10/96		U.S. EPA Aerospace Manufacturing and Rework Operations [b] CTG draft 10/96 *NESHAP limits in italics 9/15/95*	
		Performance Standard									
retention of records	VOC ROC HAP		5 years for Title V source; 2 years H&SC 42705		5 years for Title V source; 2 years H&SC 42705 Rule 109 2 years		5 years for Title V source; 2 years H&SC 42705 3 years Rule 67.9		5 years for Title V source; 2 years H&SC 42705 2 years Rule 74.13		5 years for Title V source
methylene chloride reduction plan	exempt VOC	X	by 1/1/95								
qualification acceptance testing progress report	VOC			X	6 month progress report on coatings with future compliance dates - amount used - cost						
compliance statement required	VOC ROC HAP							X	yes	X	yes

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[a] performance standard is grams of volatile organic compounds (VOC) per liter, less exempt compounds, less water, applied unless otherwise indicated

[b] CTG, draft dated July 1996; proposed 10/29/96; 61FR55842
NESHAP/CTG 9/15/95, effective 9/15/98 for existing sources; effective 9/1095 for new sources (contains HAP & VOC emission limits)